Winding Type Chip Inductor

SWC2012CFS-100KT-R85

| | ECN HISTORY LIST | | | | | | | | | | |
|-----|------------------|-------------|----------|---------|-------|--|--|--|--|--|--|
| REV | DATE | DESCRIPTION | APPROVED | CHECKED | DRAWN | | | | | | |
| 1.0 | 19/03/08 | 新 發 行 | 楊祥忠 | 徐鋒強 | 張展耀 | | | | | | |
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Winding Type Chip Inductor

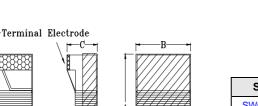
SWC2012CFS-100KT-R85

1. Features

- 1. Ferrite core wire wound construction.
- 2. High Reliability due to wire wound type construction.
- 3. Small footprint as well as low profile.
- 4. Application for DC power line.
- 5. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 6. Operating temperature -40~+125°C (Including self temperature rise)

2. Dimensions

E



| Size | Α | В | C | D | E |
|---------|-----------|-----------|-----------|-----------|----------|
| SWC2012 | 2.40 max. | 1.60 max. | 1.40 max. | 0.51 ref. | 0.44±0.1 |

Unit:mm

3. Part Numbering



A: Series

B: Dimension L x W

C: Application DC Power Line

D: Lead free type

E: Inductance 100=10.0 uH F: Inductance Tolerance K=±10%

G: Control S/N

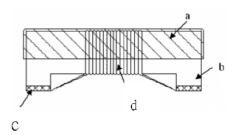
4. Specification

| TAI-TECH Part Number | Inductance (uH) | Tolerance | Test Frequency (Hz) | Q Typ. | Test Frequency (MHz) | IDC (mA) Typ. | Irms (mA) Typ. | DCR (Ω) ±30%. | SRF (MHz) Typ. |
|-------------------------|--------------------|-----------|---------------------------|-----------|----------------------------|------------------|-------------------|---------------------|----------------------|
| SWC2012CFS-100KT-R85 | 10 | K | 0.5V/2.5M | 14 | 2.5 | 360 | 560 | 0.85 | 31 |



5. Materials

| No. Description | | Specification |
|-----------------|-------------|----------------------|
| a. | Upper Plate | UV Glue |
| b. | Core | Ferrite Core |
| С | Termination | Ag/Ni/Sn |
| d | Wire | Enameled Copper Wire |



6. Reliability and Test Condition

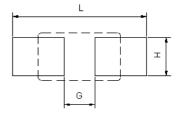
| Item | Performance | Test Condition |
|---------------------------|---|---|
| Operating temperature | -40~+125℃ (Including self - temperature rise) | |
| Storage temperature | -40~+125℃ (on board) | |
| Electrical Performance Te | st | |
| Inductance L | | Agilent-4291, Agilent-4287 |
| Q | | Agilent-4192, Agilent-4285 |
| SRF | Refer to standard electrical characteristic list | Agilent-4291 Agilent-4192 |
| DC Resistance | | Agilent-34420A |
| Rated Current | | Applied the current to coils, the inductance change shall be less than 20% to initial value. |
| Reliability Test | | |
| Life Test | | Preconditioning: Run through IR reflow for 2 times.(IPC/JEDECJ-STD-020DClassification Reflow Profiles) Temperature: 125±2°C Applied current: rated current Duration: 1000±12hrs Measured at room temperature after placing for 24±2 hrs. |
| Load Humidity | | Preconditioning: Run through IR reflow for 2 times.(IPC/JEDECJ-STD-020DClassification Reflow Profiles) Humidity: 85±2% R.H, Temperature: 85°C±2°C Duration: 1000hrs Min. with 100% rated current |
| Moisture Resistance | Appearance: No damage. Impedance: within±15% of initial value Inductance: within±10% of initial value Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value | Measured at room temperature after placing for 24±2 hrs. Preconditioning: Run through IR reflow for 2 times.(IPC/JEDECJ-STD-020DClassification Reflow Profiles) 1. Baked at50℃ for 25hrs, measured at room temperature after placing for 4 hrs. 2. Raise temperature to 65±2℃ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25℃ in 2.5hrs. 3. Raise temperature to 65±2℃ 90-100%RH in 2.5hrs, and keep 3 hours, cool down to 25℃ in 2.5hrs. 4. Keep at 25℃ for 2 hrs then keep at -10℃ for 3 hrs. 4. Keep at 25℃ 80-100%RH for 15min and vibrate at the frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1~2 hrs. |
| Thermal shock | | Preconditioning: Run through IR reflow for 2 times.(IPC/JEDECJ-STD-020DClassification Reflow Profiles) Condition for 1 cycle Step1: -40±2°C 30±5min Step2: 25±2°C ≤0.5min Step3: 125±2°C 30±5min Number of cycles: 500 Measured at room femprature after placing for 24±2 hrs. |
| Vibration | | Preconditioning: Run through IR reflow for 2 times, (IPC/JEDECJ-STD-020DClassification Reflow Profiles) Oscillation Frequency: 10~2K~10Hz for 20 minutes Equipment: Vibration checker Total Amplitude:1.52mm±10% Testing Time: 12 hours(20 minutes, 12 cycles each of 3 orientations) |

| Item | Performance | Test Condition | | | | |
|------------------------------|---|---|--|--|--|--|
| Bending | Appearance: No damage. Impedance: within±15% of initial value | Shall be mounted on a FR4 substrate of the following dimensions: >=0805 inch(2012mm):40x100x1.2mm <0805 inch(2012mm):40x100x0.8mm Bending depth: >=0805 inch(2012mm):1.2mm <0805 inch(2012mm):0.8mm duration of 10 sec. | | | | |
| Shock | Inductance: within±10% of initial value Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value | Type Peak value (g's) Normal duration (D) (ms) Wave form Velocity change (Vi)ft/sec SMD 50 11 Half-sine 11.3 Lead 50 11 Half-sine 11.3 | | | | |
| Solder ability | More than 95% of the terminal electrode should be covered with solder. | Preheat: 150°C,60sec.。 Solder: Sn96.5% Ag3% Cu0.5% Temperature: 245±5°C ∘ Flux for lead free: Rosin. 9.5% ∘ Dip time: 4±1sec ∘ Depth: completely cover the termination | | | | |
| Resistance to Soldering Heat | | Depth: completely cover the termination Temperature (°C) Time(s) Temperature ramp/immersion and emersion rate Number of heat cycles 260 ±5 (solder temp) 10 ±1 25mm/s ±6 mm/s 1 | | | | |
| Terminal Strength | Appearance: No damage. Impedance: within±15% of initial value Inductance: within±10% of initial value Q: Shall not exceed the specification value. RDC: within ±15% of initial value and shall not exceed the specification value e | Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles With the component mounted on a PCB with the device to be tested, apply a force(>0805:1kg, <=0805:0.5kg)to the side of a device being tested. This force shall be applied for 60 +1 seconds. Also the force shall be applied gradually as not to apply a shock to the component being tested. | | | | |
| | | substrate press tool thick | | | | |

7. Soldering and Mounting

7-1. Recommended PC Board Pattern

| Chip size | | | | | | | | l Pattern ow Sold | |
|-----------|------|---------|---------|---------|-----------|----------|-------|----------------------|-------|
| Series | Туре | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) | L(mm) | G(mm) | H(mm) |
| swc | 2012 | 2.40max | 1.60max | 1.40max | 0.51 ref. | 0.44±0.1 | 2.80 | 1.20 | 1.78 |



7-2. Soldering

Mildly activated rosin fluxes are preferred. TAI-TECH terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

7-2.1 Lead Free Solder re-flow:

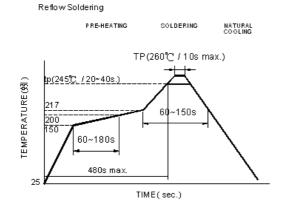
Recommended temperature profiles for lead free re-flow soldering in Figure 1.

7-2.2 Soldering Iron(Figure 2):

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

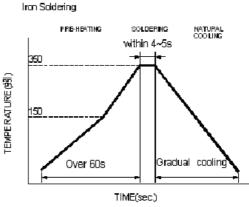
- · Never contact the ceramic with the iron tip
- Use a 20 watt soldering iron with tip diameter of 1.0mm

- 350℃ tip temperature (max)
- 1.0mm tip diameter (max)
- Limit soldering time to 4~5 sec.



Reflow times: 3 times max.

Fig.1

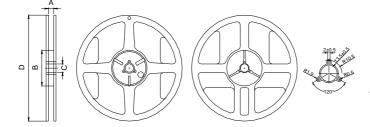


Iron Soldering times: 1 times max.

Fig.2

8. Packaging Information

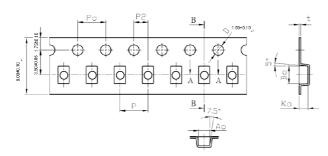
8-1. Reel Dimension



| Type | A(mm) | B(mm) | C(mm) | D(mm) |
|--------|---------|-------|----------|-------|
| 7"x8mm | 9.0±0.5 | 60±2 | 13.5±0.5 | 178±2 |

8-2. Tape Dimension / 8mm

7"x8mm



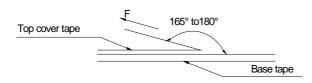
| | Series | P(mm) | Po(mm) | P2(mm) | Bo(mm) | Ao(mm) | Ko(mm) | W(mm) | t(mm) |
|---|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ĺ | swc | 4.00±0.10 | 4.00±0.10 | 2.00±0.05 | 2.50±0.10 | 1.60±0.10 | 1.25±0.10 | 8.00±0.10 | 0.22±0.05 |

7"x12mm

8-3. Packaging Quantity

| swc | 2012 |
|-------------|--------|
| Chip / Reel | 2000 |
| Reel Size | 7"x8mm |

8-4. Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

| Room Temp. | Room Humidity | Room atm | Tearing Speed | |
|------------|---------------|----------|---------------|--|
| (℃) (%) | | (hPa) | mm/min | |
| 5~35 | 45~85 | 860~1060 | 300 | |

Application Notice

• Storage Conditions(component level)

To maintain the solderability of terminal electrodes:

- 1.TAI-TECH products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 40 $^{\circ}\mathrm{C}$ $\,$ and 60% RH.
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- $2. \ The \ use \ of \ tweezers \ or \ vacuum \ pick \ up \ is \ strongly \ recommended \ for \ individual \ components.$
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.





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日期(Date): 2018/09/07

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Test Report

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JIANG-SU, CHINA)

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以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description)

WIREWOUND SERIES(FILM BACKING)

樣品型號(Stvle/Item No.)

SWF · SWC_F · PAS · WCM-L2NF · SWF-LF · SWFA SERIES

收件日期(Sample Receiving Date)

2018/08/31

測試期間(Testing Period)

2018/08/31 TO 2018/09/07

測試結果(Test Results) :

請參閱下一頁 (Please refer to following pages).



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測試結果(Test Results)

測試部位(PART NAME)No.1 : 整體混測 (MIXED ALL PARTS)

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限値 (MDL) | 結果 (Result) No.1 |
|----------------------------------|--------------|---|----------------------|------------------------|
| 鎬 / Cadmium (Cd) | mg/kg | 参考IEC 62321-5 (2013),以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-AES. | 2 | n. d. |
| 鉛 / Lead (Pb) | mg/kg | 参考IEC 62321-5 (2013),以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-AES. | 2 | n. d. |
| 汞 / Mercury (Hg) | mg/kg | 参考IEC 62321-4 (2013),以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4 (2013) and performed by ICP-AES. | 2 | n. d. |
| 六價络 / Hexavalent Chromium Cr(VI) | mg/kg | 参考IEC 62321-7-2 (2017),以UV-VIS檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. | 8 | n. d. |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限値 (MDL) | 結果 (Result) |
|----------------------------------|--------------|--------------------------------------|----------------------|----------------|
| 多溴聯苯總和 / Sum of PBBs | mg/kg | | | No. 1 n. d. |
| 一溴聯苯 / Monobromobiphenyl | mg/kg | | 5 | n. d. |
| 二溴聯苯 / Dibromobiphenyl | mg/kg | | 5 | n. d. |
| 三溴聯苯 / Tribromobiphenyl | mg/kg | | 5 | n. d. |
| 四溴聯苯 / Tetrabromobiphenyl | mg/kg | | <u> </u> | |
| 五溴聯苯 / Pentabromobiphenyl | mg/kg | | <u>5</u> | n. d. |
| 六溴聯苯 / Hexabromobiphenyl | mg/kg | | <u>5</u> | n. d. n. d. |
| 七溴聯苯 / Heptabromobiphenyl | mg/kg | | <u>5</u> | n. d. |
| へ溴聯苯 / Octabromobiphenyl | mg/kg | | <u>5</u> | n. d. |
| 九溴聯苯 / Nonabromobiphenyl | mg/kg | | <u>5</u> | n. d. |
| 十溴聯苯 / Decabromobiphenyl | mg/kg | 參考IEC 62321-6 (2015),以氣相層析儀/質 | 5 | |
| 多溴聯苯醚總和 / Sum of PBDEs | mg/kg | 譜儀檢測. / With reference to IEC 62321- | | n. d. |
| 一溴聯苯醚 / Monobromodiphenyl ether | mg/kg | 6 (2015) and performed by GC/MS. | 5 | n. d. n. d. |
| 二溴聯苯醚 / Dibromodiphenyl ether | mg/kg | | 5 | n. d. |
| 三溴聯苯醚 / Tribromodiphenyl ether | mg/kg | | 5 | |
| 四溴聯苯醚 / Tetrabromodiphenyl ether | mg/kg | | 5 | n. d. n. d. |
| 五溴聯苯醚 / Pentabromodiphenyl ether | mg/kg | | 5 | |
| 六溴聯苯醚 / Hexabromodiphenyl ether | mg/kg | | 5 | n. d. n. d. |
| 七溴聯苯醚 / Heptabromodiphenyl ether | mg/kg | | 5 | |
| 八溴聯苯醚 / Octabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 九溴聯苯醚 / Nonabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 十溴聯苯醚 / Decabromodiphenyl ether | mg/kg | | 5 5 | n. d. n. d. |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) No.1 |
|--|--------------|--|----------------------|------------------------|
| 鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | mg/kg | 參考IEC 62321-8 (2017),以氣相層析儀/質 譜儀檢測. / With reference to IEC 62321- 8 (2017). Analysis was performed by GC/MS. | 50 | n. d. |
| 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二正己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二戊酯 / DNPP (Di-n-pentyl phthalate) (CAS No.: 131-18-0) | mg/kg | | 50 | n. d. |

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Test Report

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西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

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(慶邦電子元器件(泗洪)有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

(中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P. R., CHINA)

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限値 (MDL) | 結果 (Result) No.1 |
|---|--------------|---|----------------------|------------------------|
| 六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | mg/kg | 參考IEC 62321 (2008),以氣相層析儀/質譜 儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS. | 5 | n. d. |
| 鹵素 / Halogen | | | | |
| 鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8) | mg/kg | 参考BS EN 14582 (2016),以離子層析儀分析. / With reference to BS EN 14582 (2016). Analysis was performed by IC. | 50 | n. d. |
| 鹵素 (氣) / Halogen-Chlorine (C1) (CAS No.: 22537-15-1) | mg/kg | | 50 | n. d. |
| 鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2) | mg/kg | | 50 | n. d. |
| 鹵素(碘)/ Halogen-Iodine(I)(CAS No.: 14362-44-8) | mg/kg | | 50 | n. d. |
| 銻 / Antimony (Sb) | mg/kg | 参考US EPA 3050B (1996),以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3050B (1996). Analysis was performed by ICP-AES. | 2 | n. d. |
| 鈹 / Beryllium (Be) | | 参考US EPA 3050B (1996),以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA 3050B (1996). Analysis was performed by ICP-AES. | 2 | n. d. |

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JIANG-SU, CHINA)

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限値 (MDL) | 結果 (Result) No.1 |
|--|--------------|--|----------------------|------------------------|
| 全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide) | | 参考US EPA 3550C (2007),以液相層析儀/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by | 10 | n. d. |
| 全氟辛酸 / PFOA (CAS No.: 335-67-1) | mg/kg | LC/MS. | 10 | n. d. |
| 聚氯乙烯 / PVC | | 以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test. | - | Negative |

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 7. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個別單一材質的含量. (The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

PFOS參考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗 層材料中不得超過1µg/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.)

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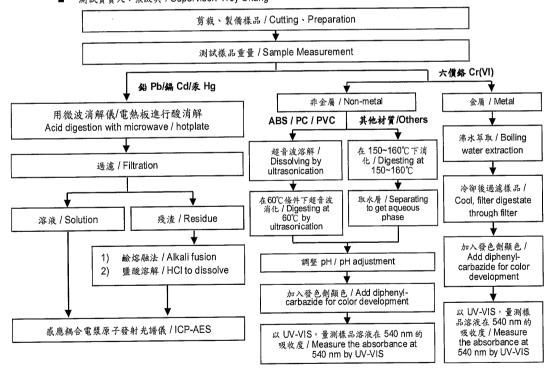
重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)

測試人員:陳恩臻 / Technician : Rita Chen

測試負責人:張啟興 / Supervisor: Troy Chang



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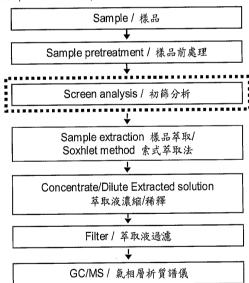
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多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

■ 測試人員:涂雅苓 / Technician: Yaling Tu

■ 測試負責人:張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process -確認程序 / Confirmation process - · - →





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JIANG-SU, CHINA)

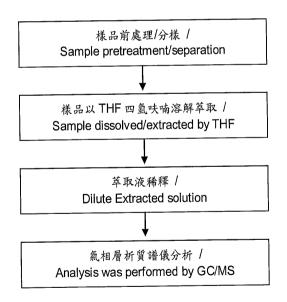
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<u>可塑劑分析流程圖 / Analytical flow chart - Pht</u>halate

測試人員:涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / Supervisor: Troy Chang

【測試方法/Test method: IEC 62321-8】



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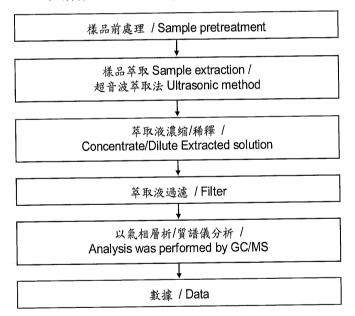
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

測試人員:涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / Supervisor: Troy Chang



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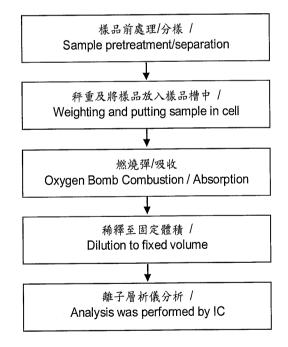
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<u> 鹵素分析流程圖 / Analytical flow chart - Halogen</u>

測試人員:陳恩臻 / Technician: Rita Chen

測試負責人:張啟興 / Supervisor: Troy Chang



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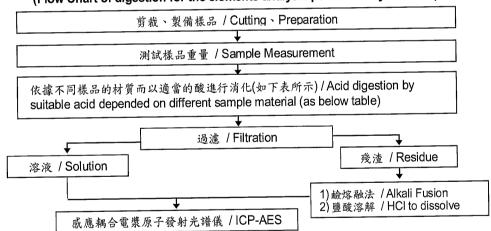
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> 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

測試人員: 陳恩臻 / Technician: Rita Chen

測試負責人:張啟興 / Supervisor: Troy Chang

元素以 ICP-AES 分析的消化流程圖 (Flow Chart of digestion for the elements analysis performed by ICP-AES)



| 王水,硝酸,鹽酸,氫氟酸,雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂ |
|--|
| 硝酸,氫氟酸 / HNO ₃ /HF |
| 王水 / Aqua regia |
| 硝酸 / HNO ₃ |
| 硫酸,雙氧水,硝酸,鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI |
| 加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion |
| |

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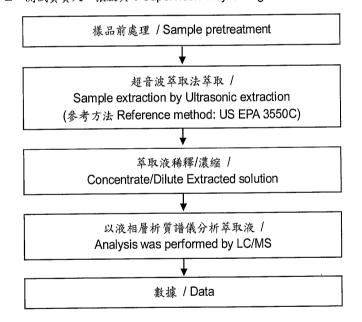
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員:涂雅苓 / Technician: Yaling Tu
- 測試負責人:張啟興 / Supervisor: Troy Chang



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Test Report

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1910 | 1817 | 1817 | 1817 | 1817 | 1817 | 1817 | 1817 | 1817 | 1817 | 1817 | 1817 | 1817 | 1817 | 1817 | 1817

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)

(慶邦電子元器件 (泗洪) 有限公司 / TAIPAQ ELECTRONICS (SI-HONG) CO., LTD.)

桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI,

TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN,

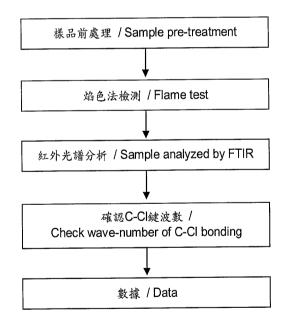
JIANG-SU, CHINA)

(中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P, R, CHINA)

聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC

測試人員: 涂雅苓 / Technician: Yaling Tu

測試負責人:張啟興 / Supervisor: Troy Chang



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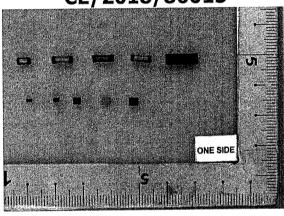
桃園市楊梅區幼獅工業區幼四路1號 / NO. 1, YOU 4TH ROAD, YOUTH INDUSTRIAL DISTRICT, YANG-MEI, TAO-YUAN CITY, TAIWAN, R. O. C.

(江蘇省昆山市篷朗昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)

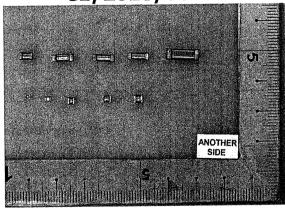
(中國,江蘇省,宿遷市,泗洪縣,經濟開發區杭州路南側,建設北路東側 / THE SOUTH HANGZHOU ROAD AND THE EAST JIANSHE ROAD, ECONOMIC DEVELOPMENT ZONE, SIHONG COUNTY, SUQIANCITY, JIANGSU PROVINCE, P, R, CHINA)

> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

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** 報告結尾 (End of Report) **

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